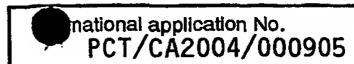
INTERNATIONAL SEARCH REPORT

International Application No
PC17CA2004/000905

| | | | 1 C17 CA20047 000305 | | | | |
|--|---|--|--|--|--|--|--|
| A. CLASSII IPC 7 | FICATION OF SUBJECT MATTER H04R5/033 | | | | | | |
| According to | o International Patent Classification (IPC) or to both national classific | ation and IPC | | | | | |
| B. FIELDS | SEARCHED | | | | | | |
| Minimum do IPC 7 | cumentation searched (classification system followed by classification HO4R | ion symbols) | | | | | |
| | tion searched other than minimum documentation to the extent that s | | | | | | |
| _ | ata base consulted during the international search (name of data base | | search terms used) | | | | |
| EPO-III | ternal, WPI Data, INSPEC, PAJ, IBM- | 106 | | | | | |
| | ENTS CONSIDERED TO BE RELEVANT | | | | | | |
| Category ° | Citation of document, with indication, where appropriate, of the re | levant passages | Relevant to claim No. | | | | |
| Α | US 6 062 337 A (ZINSERLING ET AL 16 May 2000 (2000-05-16) column 4, line 30 - column 6, line figures 1-6 | | | | | | |
| Α | US 2002/181727 A1 (SHEN YAO-SHENG 5 December 2002 (2002-12-05) page 1, right-hand column, paragr page 2, left-hand column, paragr figures 1-3 | 1 | | | | | |
| A | US 5 684 879 A (VERDICK ET AL) 4 November 1997 (1997-11-04) column 3, line 30 - column 4, li figures 1-3 | | | | | | |
| Furi | ther documents are listed in the continuation of box C. | χ Patent family n | nembers are listed in annex. | | | | |
| *T* later document published after the International filing date | | | | | | | |
| "A" document defining the general state of the art which is not considered to be of particular relevance or priority date and not in conflict with the application but clted to understand the principle or theory underlying the invention | | | | | | | |
| filing of the filling | ent which may throw doubts on priority claim(s) or | 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone | | | | | |
| citatio "O" docum | is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or | cannot be conside document is comb | ular relevance; the claimed invention ered to involve an inventive step when the sined with one or more other such docu- | | | | |
| "P" docum | means ent published prior to the international filing date but than the priority date claimed | of the same patent family | | | | | |
| <u> </u> | actual completion of the international search | | he international search report | | | | |
| 2 | 28 February 2005 | 04/03/2 | 005 | | | | |
| Name and | mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 | Authorized officer | | | | | |
| | NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016 | Meiser, | Meiser, J | | | | |

INTERNATIONAL SEARCH REPORT



| Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) | | | | | | | |
|---|--|--|--|--|--|--|--|
| This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: | | | | | | | |
| 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: | | | | | | | |
| | | | | | | | |
| 2. X Claims Nos.: 1 (in part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: | | | | | | | |
| see FURTHER INFORMATION sheet PCT/ISA/210 | | | | | | | |
| 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). | | | | | | | |
| Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) | | | | | | | |
| This International Searching Authority found multiple inventions in this international application, as follows: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims. | | | | | | | |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. | | | | | | | |
| 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report | | | | | | | |
| covers only those claims for which fees were paid, specifically claims Nos.: | | | | | | | |
| | | | | | | | |
| 4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: | | | | | | | |
| | | | | | | | |
| Remark on Protest The additional search fees were accompanied by the applicant's protest. | | | | | | | |
| No protest accompanied the payment of additional search fees. | | | | | | | |

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1 (in part)

Present independent claim 1 attempts to define headphones for providing surround sound effects by general reference to the description and figures, which is not in accordance with Rule 6.2 (a) PCT and PCT Guidelines, Chapter 5, 5.10. However, the description and figures relate to a large number of features of the headphones, some of which features are optional and some are not. Thus, the present claim contains so many options that lack of clarity arises within the meaning of Article 6 PCT to such an extent as to render a meaningful search of the claim impossible. Consequently, the search has been carried out for claim 1 as far as it relates to those parts of the application which are presented as being essential to the headphones, viz.

Headphones for 3D sound comprising the following features:

- at least two speakers (cf. figures 1-6);
- at least one tube connecting with a first end thereof one of said speakers and connecting with the second end thereof an outlet positioned adjacent to a users ear (cf. page 7, lines 13-14 and lines 25-28; page 9, lines 1-2);
- the left and right tube sections are of the same length (cf. page 9, lines 2-3);
- the at least two speakers are each housed in a vented acoustically sealed chamber (cf. page 10, lines 17-19 and lines 26-29);
- at least two speakers are located at a distance d along the front/back tube from the centerline of the head (cf. page 8, lines 20-28 and page 9, lines 28-31), where
- d = a (theta + sin(theta))/2
- a = radius of the head and

theta = the angle (in radians) of the source that the speaker represents.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

information on patent family members

PC1/CA2004/000905

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